IN THE CLAIMS

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 (currently amended) An information processing apparatus, comprising:

a separating unit operable to separate an input multiplexed stream into a first stream comprised of first-video stream information and a second stream comprised of stream information other than said first-the-video stream information;

a decoding unit operable to decode the first stream and to determine an input bit rate of the first stream;

an analyzing unit operable to determine an input bit rate of the second stream;

a setting unit operable to set a <u>total</u> bit rate of an output multiplexed stream;

a controller operable to control coding conditions for reencoding said the decoded first stream, the coding conditions including an output bit rate of the first stream that is determined on the basis of a currentan output bit rate of said the second stream and said the total bit rate of said the output multiplexed stream, said currentthe output bit rate of said the second stream being extracted fromset to be identical to the said input multiplexed bit rate of the second stream;

a coding unit operable to reencode <u>said</u> the first stream under <u>said</u> the coding conditions; and

a multiplexing unit operable to multiplex said the reencoded first stream and said the second stream to produce said the output multiplexed stream.

2. (currently amended) An information processing apparatus as claimed in claim 1, wherein said controller is operable to control said the coding conditions by determining a bit rate difference between said the total bit rate of said the output multiplexed stream and said current the output bit rate of said the second stream, said the bit rate difference being set as defining a maximum output bit rate of said the reencoded first

stream.

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3. (currently amended) An information processing apparatus as claimed in claim 21, wherein said—the coding conditions include at least one of said bit rate difference and a video frame size.

- 4. (cancelled)
- 5. (currently amended) An information processing apparatus as claimed in claim 1, wherein said controller is operable to control said the coding conditions so as to reencode said the first stream at a fixed output bit rate.
- 6. (currently amended) An information processing apparatus as claimed in claim 1, wherein said controller is operable to control said the coding conditions so as to reencode said the first stream at a variable output bit rate.
- 7. (currently amended) A method for reencoding an input multiplexed stream to provide an output multiplexed stream, said method comprising:

separating said the input multiplexed stream into a first stream comprised of first-video stream information and a second stream comprised of stream information other than said first-the-video stream information;

determining an input bit rate of the first stream;
decoding the first stream;

determining an input bit rate of the second stream;

setting a <u>total</u> bit rate of <u>said</u> output multiplexed stream;

controlling coding conditions for reencoding said—the decoded first stream, the coding conditions including an output bit rate of the first stream that is determined on the basis of a current output bit rate of said—the second stream and said the total bit rate of said—the output multiplexed stream, said current—the output bit rate of said—the second stream being being extracted from saidset to be identical to the input

multiplexed bit rate of the second stream;

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reencoding said the first stream under said the coding conditions; and

multiplexing <u>said</u>_<u>the</u> reencoded first stream and <u>said</u> the second stream to produce <u>said</u>_<u>the</u> output multiplexed stream.

- 8. (currently amended) A method as claimed in claim 7, wherein said controlling step controls said the coding conditions by determining a bit rate difference between said the total bit rate of said the output multiplexed stream and said current the input bit rate of said the second stream, said the bit rate difference being set as defining a maximum output bit rate of said the reencoded first stream.
- 9. (currently amended) A method as claimed in claim 87, wherein said the coding conditions include at least one of said bit rate difference and a video frame size.
 - 10. (cancelled)
- 11. (currently amended) A method as claimed in claim 7, wherein said controlling step controls said the coding conditions so as to reencode said the first stream at a fixed output bit rate.
- 12. (currently amended) A method as claimed in claim 7, wherein said controlling step controls the said coding conditions so as to reencode said the first stream at a variable output bit rate.
- with a computer readable program for <u>carrying out a method of</u> reencoding an input multiplexed stream to provide an output multiplexed stream, said <u>computer readable programmethod</u> comprising:

separating <u>said_the_input_multiplexed</u> stream into a first stream comprised of <u>first_video</u> stream information and a second stream comprised of stream information other than <u>said</u> <u>first_the video</u> stream information;

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determining an input bit rate of the first stream;
decoding the first stream;

determining an input bit rate of the second stream;

setting a <u>total</u> bit rate of <u>said</u> <u>the</u> output multiplexed stream;

controlling coding conditions for reencoding said the decoded first stream, the coding conditions including an output bit rate of the first stream that is determined on the basis of a currentan output bit rate of said the second stream and said the total bit rate of said the output multiplexed stream, said current the output bit rate of said the second stream being extracted from said set to be identical to the input multiplexed bit rate of the second stream;

reencoding said the first stream under said the coding conditions; and

multiplexing <u>said</u> <u>the</u> reencoded first stream and <u>said</u> the second stream to produce <u>said</u> the output multiplexed stream.

- in claim 13, wherein said controlling step of said program controls said the coding conditions by determining a bit rate difference between said the total bit rate of said the output multiplexed stream and said current the output bit rate of said the second stream, said the bit rate difference being set as defining a maximum output bit rate of said the reencoded first stream.
- 15. (currently amended) A recording medium as claimed in claim $\frac{1413}{100}$, wherein $\frac{1413}{100}$ conditions include $\frac{1413}{100}$ at $\frac{1413}{100}$ and $\frac{1413}{100}$ are of said bit rate difference and a video frame size.
 - 16. (cancelled)
- 17. (currently amended) A recording medium as claimed in claim 13, wherein said controlling step of said program controls said the coding conditions so as to reencode said the first stream at a fixed output bit rate.

- (currently amended) A recording medium as claimed in claim 13, wherein said controlling step of said program controls said the coding conditions so as to reencode said the first stream at a variable output bit rate.
- 19. (currently amended) An information processing apparatus as claimed in claim 1, wherein said first stream information includes video stream information and saidthe second stream information includes information selected from the group consisting of audio information, still image information, character information, pattern information, and multimedia encoding information.
 - 20. (cancelled)
- 21. (currently amended) An information processing apparatus as claimed in claim 1, wherein said setting unit is operable to set saidthe total bit rate of saidthe output multiplexed stream at a variable bit rate.
- 22. (currently amended) A method as claimed in claim 7, wherein said first stream information includes video stream information and said the second stream information includes information selected from the group consisting of information, still image information, character information, pattern information, and multimedia encoding information.
 - 23. (cancelled)
- 24. (currently amended) A method as claimed in claim 7, wherein said setting step sets said the total bit rate of said the output multiplexed stream at a variable bit rate.
- 25. (currently amended) A recording medium as claimed in claim 13, wherein said first stream information includes video stream information and saidthe second stream information includes information selected from the group consisting of audio information, still image information, character information, pattern information, and multimedia encoding information.
 - 26. (cancelled)

27. (currently amended) A recording medium as claimed in claim 13, wherein said setting step of said program sets the total said bit rate of the said output multiplexed stream at a variable bit rate.

28. - 30. (cancelled)